

GenCore version 5.1.3  
Copyright (c) 1993 - 2002 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 19, 2002, 14:55:37 ; Search time 12 Seconds  
(without alignments)  
793.474 Million cell updates/sec

Title: US-08-813-323B-2

Perfect score: 3008  
Sequence: 1 MESSKMKDSCALQTNPLK.....IKDDTIFIKYIVDTSLDLPD 568

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 106657 seqs, 16763532 residues

Total number of hits satisfying chosen parameters: 106657

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published\_Applications\_AA:\*  
1: /cgn2\_6/ptodata/2/pubppaa/US08\_NEW\_PUB pep:\*  
2: /cgn2\_6/ptodata/2/pubppaa/PC7\_NEW\_PUB pep:\*  
3: /cgn2\_6/ptodata/2/pubppaa/US06\_NEW\_PUB pep:\*  
4: /cgn2\_6/ptodata/2/pubppaa/US06\_PUBCOMB pep:\*  
5: /cgn2\_6/ptodata/2/pubppaa/US07\_NEW\_PUB pep:\*  
6: /cgn2\_6/ptodata/2/pubppaa/US07\_PUBCOMB pep:\*  
7: /cgn2\_6/ptodata/2/pubppaa/PC7US\_PUBCOMB pep:\*  
8: /cgn2\_6/ptodata/2/pubppaa/US08\_PUBCOMB pep:\*  
9: /cgn2\_6/ptodata/2/pubppaa/US08\_NEW\_PUB pep:\*  
10: /cgn2\_6/ptodata/2/pubppaa/US09\_PUBCOMB pep:\*  
11: /cgn2\_6/ptodata/2/pubppaa/US10\_NEW\_PUB pep:\*  
12: /cgn2\_6/ptodata/2/pubppaa/US10\_PUBCOMB pep:\*  
13: /cgn2\_6/ptodata/2/pubppaa/US60\_NEW\_PUB pep:\*  
14: /cgn2\_6/ptodata/2/pubppaa/US60\_PUBCOMB pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	% Match	Query Length	DB ID	Description
1	3008	100.0	568	US-08-813-323A-2	Sequence 2, App11
2	2879.5	95.7	566	US-08-813-323A-1	Sequence 1, App11
3	2831.5	94.1	543	US-09-757-041-2	Sequence 2, App11
4	2224	73.9	438	US-09-950-902-2	Sequence 2, App11
5	1701.5	56.6	347	US-09-950-902-4	Sequence 4, App11
6	214	7.1	43	US-09-798-789-4	Sequence 4, App11
7	186.5	5.2	72	US-09-864-761-33993	Sequence 4, App11
8	153	5.1	658	US-09-764-864-818	Sequence 33993, A
9	149	5.0	185	US-09-949-842-19	Sequence 818, App
10	149	5.0	563	US-09-764-864-1277	Sequence 19, App1
11	147	4.9	232	US-09-998-667-1	Sequence 1277, Ap
12	137	4.6	503	US-09-764-864-835	Sequence 1, App11
13	136	4.5	245	US-09-998-667-9	Sequence 835, App
14	136	4.5	1641	US-10-017-216-5	Sequence 9, App11
15	134.5	4.4	2139	US-09-727-384-6	Sequence 5, App11
16	133.5	4.4	239	US-09-998-667-7	Sequence 6, App11
17	133	4.4	285	US-09-764-864-841	Sequence 7, App11
18	133	4.4	285	US-09-764-864-841	Sequence 841, App
19	130.5	4.3	829	US-09-946-805-8	Sequence 8, App11

20	129	4.3	1958	12	US-10-028-946-4	Sequence 4, App11
21	129	4.3	2054	12	US-10-028-946-2	Sequence 2, App11
22	121.5	4.2	1138	10	US-09-767-215-5	Sequence 5, App11
23	127	4.2	2053	9	US-10-017-216-2	Sequence 2, App11
24	127	4.2	2055	9	US-10-017-216-4	Sequence 4, App11
25	126.5	4.2	1863	9	US-09-734-672-2	Sequence 2, App11
26	126.5	4.2	1863	9	US-09-734-672-4	Sequence 4, App11
27	126.5	4.2	1863	9	US-09-734-672-6	Sequence 6, App11
28	125.5	4.2	412	10	US-09-925-300-1669	Sequence 1669, Ap
29	123.5	4.1	414	10	US-09-764-864-821	Sequence 821, App
30	123.5	4.1	626	10	US-09-801-574-10	Sequence 10, App1
31	123.5	4.1	677	10	US-09-745-763-168	Sequence 168, App
32	122.5	4.1	340	10	US-09-250-883-17	Sequence 17, App1
33	122.5	4.1	1551	10	US-09-864-761-35904	Sequence 35904, A
34	121	4.0	228	10	US-09-998-667-8	Sequence 8, App11
35	121	4.0	231	10	US-09-925-301-1306	Sequence 1306, Ap
36	121	4.0	231	10	US-09-764-864-837	Sequence 837, App
37	121	4.0	231	10	US-09-764-864-1292	Sequence 1292, Ap
38	121	4.0	285	10	US-09-764-864-1296	Sequence 1296, Ap
39	121	4.0	3084	10	US-09-938-275-4	Sequence 4, App11
40	120.5	4.0	600	10	US-09-975-901-2	Sequence 2, App11
41	120.5	4.0	689	9	US-10-108-605-305	Sequence 305, App
42	120	4.0	457	10	US-09-764-864-1045	Sequence 1045, Ap
43	120	4.0	1175	10	US-09-771-161A-224	Sequence 224, App
44	120	4.0	1175	10	US-09-771-161A-225	Sequence 225, App
45	120	4.0	1175	10	US-09-771-161A-226	Sequence 226, App

## ALIGNMENTS

RESULT 1  
US-08-813-323A-2  
Sequence 2, Application US/08813323A  
Patent No. US20020031522A1  
GENERAL INFORMATION:  
APPLICANT: Baltimore, David  
APPLICANT: Cheng, Genhong  
APPLICANT: Cleary, Allen  
APPLICANT: Lederman, Seth  
TITLE OF INVENTION: TRUNCATED CRAPI INHIBITS CD40 SIGNALING  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham, LLP  
STREET: 1185 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/813,323A  
FILING DATE:  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: White, John P  
REGISTRATION NUMBER: 28,678  
REFERENCE/DOCKET NUMBER: 50659  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 278-0400  
TELEFAX: (212) 391-0525  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 568 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide

FEATURE:  
NAME/KEY: Peptide  
LOCATION: 1..568  
US-08-813-323A-2

Query Match 100.0%; Score 3008; DB 8; Length 568;  
Best Local Similarity 100.0%; Pred. No. 2,9e-210;  
Matches 568; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MESSKKMDSGALQTNPLKLTHTDRSAGTPVFPVPEOGGKKEKVKYVEDKTKCKCHLYL 60  
DB 1 MESSKKMDSGALQTNPLKLTHTDRSAGTPVFPVPEOGGKKEKVKYVEDKTKCKCHLYL 60  
QY 61 CSRKQTEGHRFCESMAALLSSSPKCTACQESIYKDKVFKDNCCKREILALQIYCRNE 120  
DB 61 CSRKQTEGHRFCESMAALLSSSPKCTACQESIYKDKVFKDNCCKREILALQIYCRNE 120  
QY 121 SRGCAEQLTGLHLVHLKNDCHFEELPCVPRDCKEYLRKDLRDHVEKACKYREATCSHC 180  
DB 121 SRGCAEQLTGLHLVHLKNDCHFEELPCVPRDCKEYLRKDLRDHVEKACKYREATCSHC 180  
QY 181 KSOVPMIALOKHEDTDCPCVYVSCPHKCSYQTLRLSELSAHLSECYNAPSTCSFKRYGCV 240  
DB 181 KSOVPMIALOKHEDTDCPCVYVSCPHKCSYQTLRLSELSAHLSECYNAPSTCSFKRYGCV 240  
QY 241 FQGTNOQIKAHSAVQHVNLKEMNSLEKRVSLQNESVEKNKSIOSLHNOICSFEL 300  
DB 241 FQGTNOQIKAHSAVQHVNLKEMNSLEKRVSLQNESVEKNKSIOSLHNOICSFEL 300  
QY 301 EIEROKEMLRNNEKILHLQRYIDSQAELKELDKELRPFQNMWEADSMKSSVESLQNR 360  
DB 301 EIEROKEMLRNNEKILHLQRYIDSQAELKELDKELRPFQNMWEADSMKSSVESLQNR 360  
QY 361 VTELESVDKSAQVARTGILLESQLSRHDQMSVHDIRLADMDLRFOVLETAASYNGVLIW 420  
DB 361 VTELESVDKSAQVARTGILLESQLSRHDQMSVHDIRLADMDLRFOVLETAASYNGVLIW 420  
QY 421 KIRDYKRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLNGDMGKTHLSLFFVIMRG 480  
DB 421 KIRDYKRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLNGDMGKTHLSLFFVIMRG 480  
QY 481 EYDALLPMPFKQVTLMLMDQSSRRHLGDAFKPDPNSSSFKPTGEMNIAASGCPVFAQ 540  
DB 481 EYDALLPMPFKQVTLMLMDQSSRRHLGDAFKPDPNSSSFKPTGEMNIAASGCPVFAQ 540  
QY 541 TVLENGTYIKDDTIFIKYIVTSDLPD 568  
DB 541 TVLENGTYIKDDTIFIKYIVTSDLPD 568

## RESULT 2

US-08-813-323A-1  
Sequence 1, Application US/08813323A  
Patent No. US20020031522A1  
GENERAL INFORMATION:  
APPLICANT: Baltimore, David  
APPLICANT: Cheng, Genhong  
APPLICANT: Cleary, Aileen  
APPLICANT: Lederman, Seth  
TITLE OF INVENTION: TRUNCATED CRAFT INHIBITS CD40 SIGNALING  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham, LLP  
STREET: 1185 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/813,323A  
FILING DATE:  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: White, John P  
REGISTRATION NUMBER: 28,678  
REFERENCE/DOCKET NUMBER: 50659  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 278-0400  
FAX: (212) 391-0525  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 566 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FEATURE:  
NAME/KEY: Peptide  
LOCATION: 1..566  
US-08-813-323A-1

Query Match 95.7%; Score 2879.5; DB 8; Length 566;  
Best Local Similarity 96.1%; Pred. No. 5.7e-201;  
Matches 545; Conservative 7; Mismatches 14; Indels 1; Gaps 1;

QY 1 MESSKKMDSGALQTNPLKLTHTDRSAGTPVFPVPEOGGKKEKVKYVEDKTKCKCHLYL 60  
DB 1 MESSKKMDSGALQTNPLKLTHTDRSAGTPVFPVPEOGGKKEKVKYVEDKTKCKCHLYL 60  
QY 61 CSRKQTEGHRFCESMAALLSSSPKCTACQESIYKDKVFKDNCCKREILALQIYCRNE 120  
DB 61 CSRKQTEGHRFCESMAALLSSSPKCTACQESIYKDKVFKDNCCKREILALQIYCRNE 120  
QY 121 SRGCAEQLTGLHLVHLKNDCHFEELPCVPRDCKEYLRKDLRDHVEKACKYREATCSHC 180  
DB 121 SRGCAEQLTGLHLVHLKNDCHFEELPCVPRDCKEYLRKDLRDHVEKACKYREATCSHC 180  
QY 181 KSOVPMIALOKHEDTDCPCVYVSCPHKCSYQTLRLSELSAHLSECYNAPSTCSFKRYGCV 240  
DB 181 KSOVPMIALOKHEDTDCPCVYVSCPHKCSYQTLRLSELSAHLSECYNAPSTCSFKRYGCV 240  
QY 241 FQGTNOQIKAHSAVQHVNLKEMNSLEKRVSLQNESVEKNKSIOSLHNOICSFEL 300  
DB 241 FQGTNOQIKAHSAVQHVNLKEMNSLEKRVSLQNESVEKNKSIOSLHNOICSFEL 300  
QY 301 EIEROKEMLRNNEKILHLQRYIDSQAELKELDKELRPFQNMWEADSMKSSVESLQNR 360  
DB 301 EIEROKEMLRNNEKILHLQRYIDSQAELKELDKELRPFQNMWEADSMKSSVESLQNR 360  
QY 361 VTELESVDKSAQVARTGILLESQLSRHDQMSVHDIRLADMDLRFOVLETAASYNGVLIW 420  
DB 361 VTELESVDKSAQVARTGILLESQLSRHDQMSVHDIRLADMDLRFOVLETAASYNGVLIW 420  
QY 421 KIRDYKRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLNGDMGKTHLSLFFVIMRG 480  
DB 421 KIRDYKRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLNGDMGKTHLSLFFVIMRG 480  
QY 481 EYDALLPMPFKQVTLMLMDQSSRRHLGDAFKPDPNSSSFKPTGEMNIAASGCPVFAQ 540  
DB 481 EYDALLPMPFKQVTLMLMDQSSRRHLGDAFKPDPNSSSFKPTGEMNIAASGCPVFAQ 540  
QY 541 TVLENGTYIKDDTIFIKYIVTSDLPD 567  
DB 541 TVLENGTYIKDDTIFIKYIVTSDLPD 566

## RESULT 3

US-09-757-041-2  
Sequence 2, Application US/09757041  
Patent No. US2002009726A1

GENERAL INFORMATION:  
 APPLICANT: Reed, John C.  
 TITLE OF INVENTION: CD40 Associated Proteins  
 NUMBER OF SEQUENCES: 17  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Campbell and Flores  
 STREET: 4370 La Jolla Village Drive, Suite 700  
 CITY: San Diego  
 STATE: California  
 COUNTRY: USA  
 ZIP: 92122  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/757,041  
 FILING DATE:  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/349,357  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Campbell, Cathryn A.  
 REGISTRATION NUMBER: 31,815  
 REFERENCE/DOCKET NUMBER: P-LJ 1203  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (619) 535-9001  
 TELEFAX: (619) 535-8949  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 543 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-09-757-041-2

Query Match 94.1%; Score 2831.5; DB 10; Length 543;  
 Best Local Similarity 95.2%; Pred. No. 1.6e-197;  
 Matches 541; Conservative 0; Mismatches 2; Indels 25; Gaps 1;

QY 1 MESSKMDSPGALQTNPLKLTDRSAGTPVFPVPEGGKKEKFKVTEDEKCKCHLVL 60  
 DB 1 MESSKMDSPGALQTNPLKLTDRSAGTPVFPVPEGGKKEKFKVTEDEKCKCHLVL 60  
 QY 61 CSPKQTEGHRFCESCMALLSSSSPKCTACQESIVKDKVFNCKCKREILALQIYCRNE 120  
 DB 61 CSPKQTEGHRFCESCMALLSSSSPKCTACQESIVKDKVFNCKCKREILALQIYCRNE 120  
 QY 121 SRGCAQDLTLGHLVHLKNDCHFEELPCVPRDCKEVLKDLRDHVEKACKYREATCSHC 180  
 DB 121 SRGCAQDLTLGHLVHLKNDCHFEELPCVPRDCKEVLKDLRDHVEKACKYREATCSHC 180  
 QY 121 SRGCAQDLTLGHLVHLKNDCHFEELPCVPRDCKEVLKDLRDHVEKACKYREATCSHC 180  
 DB 121 SRGCAQDLTLGHLVHLKNDCHFEELPCVPRDCKEVLKDLRDHVEKACKYREATCSHC 180  
 QY 181 KSOVPMIALQKHEDTDCPCVAVSCPHKCSVOTLLRSELSAHLSECYNAPSTCSFRKGCY 240  
 DB 181 KSOVPMIALQKHEDTDCPCVAVSCPHKCSVOTLLRSELSAHLSECYNAPSTCSFRKGCY 240  
 QY 181 KSOVPMIALQKHEDTDCPCVAVSCPHKCSVOTLLRSELSAHLSECYNAPSTCSFRKGCY 240  
 DB 181 KSOVPMIALQKHEDTDCPCVAVSCPHKCSVOTLLRSELSAHLSECYNAPSTCSFRKGCY 240  
 QY 241 FQGTNOQIKAEHASSAVOHVNLKEMSNLEKVVSLQNESVEKNKSIQSLHNOICSEFI 300  
 DB 241 FQGTNOQIKAEHASSAVOHVNLKEMSNLEKVVSLQNESVEKNKSIQSLHNOICSEFI 300  
 QY 218 --GNGOQIKAEHASSAVOHVNLKEMSNLEKVVSLQNESVEKNKSIQSLHNOICSEFI 275  
 DB 218 --GNGOQIKAEHASSAVOHVNLKEMSNLEKVVSLQNESVEKNKSIQSLHNOICSEFI 275  
 QY 301 EIEROKEMLRNNEKILHLQVYDSQAEKLKELDKETIRPFQNMWEADSMKSSVESLQNR 360  
 DB 301 EIEROKEMLRNNEKILHLQVYDSQAEKLKELDKETIRPFQNMWEADSMKSSVESLQNR 360  
 QY 276 EIEROKEMLRNNEKILHLQVYDSQAEKLKELDKETIRPFQNMWEADSMKSSVESLQNR 335  
 DB 276 EIEROKEMLRNNEKILHLQVYDSQAEKLKELDKETIRPFQNMWEADSMKSSVESLQNR 335  
 QY 361 VTELESVDKSAGOVARTGLESOLSRHDOMLSVHDIRLADMMDLRFVLETASYNGVLIM 420  
 DB 361 VTELESVDKSAGOVARTGLESOLSRHDOMLSVHDIRLADMMDLRFVLETASYNGVLIM 420  
 QY 336 VTELESVDKSAGOVARTGLESOLSRHDOMLSVHDIRLADMMDLRFVLETASYNGVLIM 395  
 DB 336 VTELESVDKSAGOVARTGLESOLSRHDOMLSVHDIRLADMMDLRFVLETASYNGVLIM 395  
 QY 421 KIRDYKRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLNGDMGKTHLSLFFVIMRG 480  
 DB 421 KIRDYKRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLNGDMGKTHLSLFFVIMRG 480

DB 396 KIRDYKRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLNGDMGKTHLSLFFVIMRG 455  
 QY 481 EYDALLPMPFKOKVTLMLMDGSSRRHIGDAKPDNPSSFFKPGEMNIASGCPVFAO 540  
 DB 456 EYDALLPMPFKOKVTLMLMDGSSRRHIGDAKPDNPSSFFKPGEMNIASGCPVFAO 515  
 QY 541 TVLENGYIKDDTIFIKVIVTSDLPDP 568  
 DB 516 TVLENGYIKDDTIFIKVIVTSDLPDP 543

RESULT 4  
 US-09-950-902-2  
 ; Sequence 2, Application US/09950902  
 ; Patent No. US20020127615A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: The Trustees of Columbia University in the City of  
 ; TITLE OF INVENTION: TRAF-3 DELETION ISOFORMS AND USES THEREOF  
 ; FILE REFERENCE: 58732-A-PCT  
 ; CURRENT APPLICATION NUMBER: US/09/950,902  
 ; CURRENT FILING DATE: 2001-09-10  
 ; PRIOR APPLICATION NUMBER: PCT/US00/06503  
 ; PRIOR FILING DATE: 2000-03-10  
 ; PRIOR APPLICATION NUMBER: 09/268,544  
 ; PRIOR FILING DATE: 1999-03-11  
 ; NUMBER OF SEQ ID NOS: 14  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 2  
 ; LENGTH: 438  
 ; TYPE: PRT  
 ; ORGANISM: Isolated TRAF-3 deletion isoform protein  
 US-09-950-902-2

Query Match 73.9%; Score 2224; DB 10; Length 438;  
 Best Local Similarity 76.8%; Pred. No. 1.1e-153;  
 Matches 437; Conservative 0; Mismatches 0; Indels 132; Gaps 3;

QY 1 MESSKMDSPGALQTNPLKLTDRSAGTPVFPVPEGGKKEKFKVTEDEKCKCHLVL 60  
 DB 1 MESSKMDSPGALQTNPLKLTDRSAGTPVFPVPEGGKKEKFKVTEDEKCKCHLVL 60  
 QY 61 CSPKQTEGHRFCESCMALLSSSSPKCTACQESIVKDKVFNCKCKREILALQIYCRNE 120  
 DB 61 CSPKQTEGHRFCESCMALLSSSSPKCTACQESIVKDKVFNCKCKREILALQIYCRNE 120  
 QY 121 SRGCAQDLTLGHLVHLKNDCHFEELPCVPRDCKEVLKDLRDHVEKACKYREATCSHC 180  
 DB 121 SRGCAQDLTLGHLVHLKNDCHFEELPCVPRDCKEVLKDLRDHVEKACKYREATCSHC 180  
 QY 181 KSOVPMIALQKHEDTDCPCVAVSCPHKCSVOTLLRSELSAHLSECYNAPSTCSFRKGCY 240  
 DB 181 KSOVPMIALQKHEDTDCPCVAVSCPHKCSVOTLLRSELSAHLSECYNAPSTCSFRKGCY 240  
 QY 241 FQGTNOQIKAEHASSAVOHVNLKEMSNLEKVVSLQNESVEKNKSIQSLHNOICSEFI 300  
 DB 241 FQGTNOQIKAEHASSAVOHVNLKEMSNLEKVVSLQNESVEKNKSIQSLHNOICSEFI 300  
 QY 301 EIEROKEMLRNNEKILHLQVYDSQAEKLKELDKETIRPFQNMWEADSMKSSVESLQNR 360  
 DB 301 EIEROKEMLRNNEKILHLQVYDSQAEKLKELDKETIRPFQNMWEADSMKSSVESLQNR 360  
 QY 189 -----LQRYVDSQAEKLKELDKETIRPFQNMWEADSMKSSVESLQNR 230  
 DB 189 -----LQRYVDSQAEKLKELDKETIRPFQNMWEADSMKSSVESLQNR 230  
 QY 361 VTELESVDKSAGOVARTGLESOLSRHDOMLSVHDIRLADMMDLRFVLETASYNGVLIM 420  
 DB 361 VTELESVDKSAGOVARTGLESOLSRHDOMLSVHDIRLADMMDLRFVLETASYNGVLIM 420  
 QY 231 VTELESVDKSAGOVARTGLESOLSRHDOMLSVHDIRLADMMDLRFVLETASYNGVLIM 290  
 DB 231 VTELESVDKSAGOVARTGLESOLSRHDOMLSVHDIRLADMMDLRFVLETASYNGVLIM 290  
 QY 421 KIRDYKRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLNGDMGKTHLSLFFVIMRG 479  
 DB 421 KIRDYKRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLNGDMGKTHLSLFFVIMRG 479  
 QY 291 KIRDYKRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLNGDMGKTHLSLFFVIMRG 349  
 DB 291 KIRDYKRRKQEAVMGKTLISYQPFYTGFGYKMCARVYLNGDMGKTHLSLFFVIMRG 349  
 QY 480 GEYDALLPMPFKOKVTLMLMDGSSRRHIGDAKPDNPSSFFKPGEMNIASGCPVFAO 539  
 DB 480 GEYDALLPMPFKOKVTLMLMDGSSRRHIGDAKPDNPSSFFKPGEMNIASGCPVFAO 539  
 QY 350 GEYDALLPMPFKOKVTLMLMDGSSRRHIGDAKPDNPSSFFKPGEMNIASGCPVFAO 409  
 DB 350 GEYDALLPMPFKOKVTLMLMDGSSRRHIGDAKPDNPSSFFKPGEMNIASGCPVFAO 409

Oy	540	QTVLNGTYIKDDTIFIKVIIVDTSDDL	PDP	568
Db	410	QTVLNGTYIKDDTIFIKVIIVDTSDDL	PDP	438

RESULT 5 -  
 US-09-950-902-4  
 ? Sequence 4, Application US/09950902  
 ? Patent No. US20020127615A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: The Trustees of Columbia University in the City of  
 ? TITLE OF INVENTION: TRAF-3 DELETION ISOFORMS AND USES THEREOF  
 ? FILE REFERENCE: 58732-A-PCT  
 ? CURRENT APPLICATION NUMBER: US/09/950,902  
 ? CURRENT FILING DATE: 2001-09-10  
 ? PRIOR APPLICATION NUMBER: PCT/US00/06503  
 ? PRIOR FILING DATE: 2000-03-10  
 ? PRIOR APPLICATION NUMBER: 09/268,544  
 ? PRIOR FILING DATE: 1999-03-11  
 ? NUMBER OF SEQ ID NOS: 14  
 ? SOFTWARE: PatentIn Ver. 2.1  
 ? SEQ ID NO. 4  
 ? LENGTH: 347  
 ? TYPE: PRT  
 ? ORGANISM: Isolated TRAF-3 deletion isoform protein  
 ? US-09-950-902-4

```

US-09-798-789-4
: Sequence 4, Application US/09798789
: Patent No. US20020009780A1
: GENERAL INFORMATION:
: APPLICANT: Dahiyat, Bassil
: APPLICANT: Filikov, Anton
: TITLE OF INVENTION: DESIGN AND DISCOVERY OF PROTEIN BASED TNF-ALPHA
: TITLE OF INVENTION: VARIANTS FOR THE TREATMENT OF TNF-ALPHA RELATED
: TITLE OF INVENTION: DISORDERS
: FILE REFERENCE: A-68990-1/RRT/OMS/RMK
: CURRENT APPLICATION NUMBER: US/09/798,789
: CURRENT FILING DATE: 2001-03-02
: PRIOR APPLICATION NUMBER: US 60/186,427
: PRIOR FILING DATE: 2000-03-02
: NUMBER OF SEQ ID NOS: 22
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 4
: LENGTH: 43
: TYPE: PR1
: ORGANISM: Homo sapiens
: US-09-798-789-4

```

APPLICANT: Hanzel, David K.  
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
FILE REFERENCE: Aecmca-x-1  
CURRENT FILING DATE: 2001-05-23  
PRIOR APPLICATION NUMBER: US 60/180,312  
PRIOR FILING DATE: 2000-02-04  
PRIOR APPLICATION NUMBER: US 60/207,456  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: US 09/632,366  
PRIOR FILING DATE: 2000-08-03  
PRIOR APPLICATION NUMBER: GB 24263, 6  
PRIOR FILING DATE: 2000-10-04  
PRIOR APPLICATION NUMBER: US 60/236,359  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: PCT/US01/00666  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00667  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00664  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00669  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00665  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00668  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00663  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00662  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00661  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00670  
PRIOR FILING DATE: 2000-09-21  
PRIOR APPLICATION NUMBER: US 60/234,687  
PRIOR FILING DATE: 2000-06-30  
PRIOR APPLICATION NUMBER: US 09/608,408  
PRIOR FILING DATE: 2001-01-29  
NUMBER OF SEQ ID NOS: 49117  
SOFTWARE: Anomax Sequence Listing Engine vers. 1.1  
SEQ ID NO 33993  
LENGTH: 72  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
OTHER INFORMATION: MAP TO AC006430.15  
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.6  
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.2  
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.4  
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.3  
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.1  
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.3  
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.2  
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.8  
OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.3  
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.2  
OTHER INFORMATION: EST HUMAN HIT: AM136067.1, EVALUATE 1.00e-18  
OTHER INFORMATION: SWISSPROT HIT: Q13077, EVALUATE 3.00e-37  
US-09-864-761-33993  
Query Match 6.2%; Score 186.5; DB 10; Length 72;  
Best Local Similarity 51.4%; Pred. No. 2.9e-07;  
Matches 37; Conservative 17; Mismatches 15; Indels 3; Gaps 2;

DB 494 VTMLDQSSRRHLDGATPDNPSSFFKPGEMNIAAGCPYVQAQVLEN--GTYIND 551  
1 VTMLDQ--NNREHAIADAFRDPDLSASFORPOSETVNAGCPLFFPLSKLQSPKHAIVXD 59

QY 552 DTIFKIVDTS 563  
DB 60 DTMLFKCIVERS 71

RESULT 9  
US-09-764-864-818  
Sequence 818, Application US/09764864  
Patent No. US20020132753A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
FILE REFERENCE: PT23  
CURRENT APPLICATION NUMBER: US/09/764,864  
CURRENT FILING DATE: 2001-01-17  
Prior application data removed - consult PALM or file wrapper  
NUMBER OF SEQ ID NOS: 1792  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 818  
LENGTH: 658  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SITE  
LOCATION: (5)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (48)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (64)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
NAME/KEY: SITE  
LOCATION: (71)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-764-864-818

Query Match 5.1%; Score 153; DB 10; Length 658;  
Best Local Similarity 19.3%; Pred. No. 0.0012;  
Matches 69; Conservative 71; Mismatches 107; Indels 110; Gaps 17;

QY 51 YKCEKHLVLCSPKTEGHRFCESMAALLSSSPKTAQESIVKDYKDNCKREI 110  
DB 362 FECSICMLRFPFVPTPCGHSFCNKLERC-L-DHAPYCPICKESL-----KEY 408  
QY 111 LALQIYCRNESRCAEQLTLGHLVHLKNDCHFEELFCVPRDCEKYLKRDYHVKAC 170  
DB 409 LADRYCYTQ---LLEELIVKYL-----PD--ELSEKKIYDE----- 441  
QY 171 KYREATGSHCKSOYPM-IALQKHEDTDCPCVYVSCPHKCSVQTLRSELNHSNAP 229  
DB 442 --ETHELSHLTKNVPFIYCTMAIPTVPCPLHVFEPRIKLRISIQG-TKQFQMCVSDT 498  
QY 230 STGSEKRYCVFQGTNOQIKAEASAVQHNVLKESNSLE---KVSLLQNESYEKN 285  
DB 499 QN-SPADYCGMLQ-----IRNVHFLPDGSRVYDVGKRRFVYLK----- 536  
QY 286 KSIQSLNLIQISFELEITROKEMLRNNEKSLHLQRYID---SQA-----ELKLDKE-- 336  
DB 537 --RQMKRGYCT--ADIEYLEDVYVENDEIKRLRELHLDVYSGACGWFOLRFRFSQI 591  
QY 337 IRPFQNMNEEDSMKS-----SVESLQNRVTELESV 367  
DB 592 LQHGSMFEREBENLQAPNAPKCMWLLAVLPVDPRTQLSVLSKMSLKERLTQIHI 648

RESULT 10  
US-09-949-842-19  
Sequence 19, Application US/09949842  
Patent No. US20020164692A1  
GENERAL INFORMATION:  
APPLICANT: Ni et al.  
TITLE OF INVENTION: PT047PI



QY 141 CFEELPCVPRDCKEYLRKDLRDHVEKACKYREATCSHCKSOVPMALOKHEDTDCPCV 200  
 Db 103 -----CDTVLCISEMRAHIRTCKYID-----KYSPLELEETARCV 140  
 QY 201 VSCPHKCSVOTLLRSELSEAHLSVCVAPNSPCSPKR 236  
 Db 141 CFCORELYEDSLDHCITTHRSE--RRVFCPLCR 174

## RESULT 13

US-09-764-864-835  
 ; Sequence 835, Application US/09764864  
 ; Patent No. US20020132753A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rosen et al.  
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
 ; FILE REFERENCE: PRT23  
 ; CURRENT APPLICATION NUMBER: US/09/764,864  
 ; PRIORITY FILING DATE: 2001-01-17  
 ; PRIOR APPLICATION DATA REMOVED - consult PAM or file wrapper  
 ; NUMBER OF SEQ ID NOS: 1792  
 ; SOFTWARE: Patentln Ver. 2.0  
 ; SEQ ID NO 835  
 ; LENGTH: 503  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-764-864-835

Query Match 4.6%; Score 137; DB 10; Length 503;  
 Best Local Similarity 20.4%; Pred. No. 0.013;  
 Matches 95; Conservative 63; Mismatches 156; Indels 152; Gaps 24;

QY 44 VKTEDEKCKKCKC-----HLVLSCKQTEGHRFCESCMALLSSSPKCTAC----- 91  
 Db 24 MKTIDDLRCGICCFEYFIAMITP---QCSHNYCSLCIRKLSYKTCQPCVCVITPEDL 80  
 QY 92 -----QESIVKDKVFKDN-----CCREIILALQIYCRNESGCAEQ--LT 129  
 Db 81 KNNRIDELTVKSLNFRNHLLOFALESPASPASSSSKNLAVKYTPVASHQSLKQGSRL 140  
 QY 130 LGHLLVHAKNCHFEELPCVPRDCKEYLRKDLRDHVEKACKYREATC-----SHCK 181  
 Db 141 MONEFLIREMSGTSELL-----IKENKSKFSPQKEASPAKTKETRSVEBIADPSEAK 194  
 QY 182 SQVP--MIALQKHEDTDCPCVAVSCPHKCSVOTLLRSELSEAHLSVCV----- 227  
 Db 195 RPEPSTSTLKQVTKVDCPCVGVNIP-----ESHINKHLDSCLSREKKESSLSSV 245  
 QY 228 -----APSTC-----SFRKRGCVFQGTNOQ--IKAHE-----A 253  
 Db 246 HKRRPLPTVYNLSDRLKRLKKEHGLSIGNKQQLIKRHQEFVHMVNAQCDALHPKSA 305  
 QY 254 SSAYOVHVLKLEMSNLEKKVSLQNESV-----EKNKSQSLHNOI--CSFELEIROK 306  
 Db 306 AEIYOELINIKTKMRLE--ASKL--NESVAVFTYKQTEKEIDETHSKYRKXKKEFQLLV 362  
 QY 307 EMLRNESKILHL--QRYI-----DSQAEKL-----KELD--KEIR 338  
 Db 363 DQARKGYKKIAGMSQKVTYTIKKEDESTEKLSVCMGOEDNMTSVTNHFSQSKLSDPPELE 422  
 QY 339 PFRONWEADSMKSSVESLQNRVTELESVDKSGQVARNGLLESEQ 384  
 Db 423 PDRE--EDSSSCIDIOEVLSS--SESDSCNSSSSDIIRD--LLEE 462

## RESULT 14

US-09-998-667-9  
 ; Sequence 9, Application US/09998667  
 ; Patent No. US20020146747A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Masuda, Eateban  
 ; APPLICANT: Liao, X. Charlene  
 ; APPLICANT: Zhao, Haozan

; APPLICANT: Chu, Peter  
 ; APPLICANT: Pardo, Jorge  
 ; APPLICANT: Rigel, Pharmaceuticals, Incorporated  
 ; TITLE OF INVENTION: TRAC1: Modulators of Lymphocyte Activation  
 ; FILE REFERENCE: 021044-000600US  
 ; CURRENT APPLICATION NUMBER: US/09/998,667  
 ; PRIORITY FILING DATE: 2001-12-03  
 ; PRIOR APPLICATION NUMBER: US 60/282,432  
 ; PRIOR FILING DATE: 2001-04-06  
 ; NUMBER OF SEQ ID NOS: 18  
 ; SOFTWARE: Patentln Ver. 2.1  
 ; SEQ ID NO 9  
 ; LENGTH: 245  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; OTHER INFORMATION: STRIN sequence with r1gn domain  
 ; US-09-998-667-9

Query Match 4.5%; Score 136; DB 10; Length 245;  
 Best Local Similarity 21.6%; Pred. No. 0.0061;  
 Matches 58; Conservative 45; Mismatches 116; Indels 50; Gaps 13;

QY 48 EDKYYKCEKCHLVLCSP--KQTEGHRFCESCMALLSSSPKCTACQESTIVKDKVFKDNCC 106  
 Db 13 EDDFYCPVCEVLKTPRTACQHVFCRCQFLTAMRESGAHCPLRGVTR----REAC 68  
 QY 107 KREIILALQIYCRNES--RGCAEQLLGHLLVHAKNCHFEEL--LPCVPRDCKEYLRK 160  
 Db 69 PERALDENIMRFRSSGSCCAQIKFYRRRHNYKCKRYQDEYGVSSIVPFIQS---- 124  
 QY 161 DLRDHVEKACKYREATCSHCKSOVPMALOKHEDTDCPCVAVSCPHKCSVOTLLRSEL-- 218  
 Db 125 --QDSVGNNSRSTSTSDNTERTYQENTSSGHTFCPL-----QCESNFTQRLLD 174  
 QY 219 ---SAHLSVCVAPNSPCSPKRRCVCF--OGTNOQIKAHBASSAYOVHVLKLEMSNLEKK 273  
 Db 175 HCSNHLFOIV--PYNCPI---CVSLPWGDSQI-----TRNFVSHLNRQDFYVG--EF 222  
 QY 274 VSLQNESVKKNSIOSLHNOICSEFIEI 302  
 Db 223 VNLQDETOYQTAVE-----SFQVNI 245

## RESULT 15

US-10-017-216-5  
 ; Sequence 5, Application US/10017216  
 ; Patent No. US20020160483A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: KAPILLER-LIBERMAN, Rosana  
 ; TITLE OF INVENTION: 13245, A No. US20020160483A1el Human Myotonic Dystrophy Type P  
 ; FILE REFERENCE: 10147-5701  
 ; CURRENT APPLICATION NUMBER: US/10/017,216  
 ; PRIORITY FILING DATE: 2001-10-23  
 ; PRIOR APPLICATION NUMBER: US 60/242,429  
 ; PRIOR FILING DATE: 2000-10-23  
 ; NUMBER OF SEQ ID NOS: 7  
 ; SOFTWARE: Patentln Ver. 2.1  
 ; SEQ ID NO 5  
 ; LENGTH: 1641  
 ; TYPE: PRT  
 ; ORGANISM: Mus musculus  
 ; US-10-017-216-5

Query Match 4.5%; Score 136; DB 9; Length 1641;  
 Best Local Similarity 21.5%; Pred. No. 0.067;  
 Matches 97; Conservative 75; Mismatches 165; Indels 114; Gaps 22;

QY 40 KEKFTVDEKYYKCEKCHLVLCSP--KQTEGHRFCESCMALLSSSP--KQACQESTIVK 97  
 Db 76 KKLIRSKELQSDCKCHM--EQEMTRLHRRVSE--VEAVLSQKEVELKASGTORSLLE 131

QY 98 DKVFNCKCKRELIADQIYCRNESRGCAEOLTLGHLVHLKNDCHFEELPCVPRPCKERY 157  
Db 132 -----ODIATYI-----TECSS-----LKRSLEQARMEVQSQEDDKALQ 164  
QY 158 LKRDLDHVEKACKYREATCSHCKSOVPMIALQKHEDTDCPCVVVSCPHKSV--QTLR 215  
Db 165 LTHDIREQSRKLOETKEQEQAOVEEMRIMMNLQLEED-----LVSARRRSDLYESELE 218  
QY 216 SELSAHLSRCVNAPTCSFRKRYGCVFQGTNO--QIKAHESASAYQHVNLKEMSLSLEK 273  
Db 219 SRLAA--EERKRANECQHKLKAKADQGPVEGETSKLEKINABOOLK-TQELQEKLEKA 275  
QY 274 V-----SILONESVEKNKS--IOSLHNOJCSFE-----IETEROEMLRNNESKI- 316  
Db 276 VKASTATELLOINIRQAKERAERELEKLNREDSSEGIKKLYEALELEE--KHREAOVS 333  
QY 317 -----LHLORVYDSQAELKELDKEIRP-----FRONWEA----- 347  
Db 334 AQHLEVHLKQEQHYEKEIKVLDNQIKKDLADKESLENNMORHEEAEHEKGKILSEOKAM 393  
QY 348 -DSMKSSVESLONRYTELESVDKSAGQVARNITGL-ESQLSRHDOMLSVHDIRLADMDLR 405  
Db 394 INAMDSKIRSLQRIVELSEANK---LAANSLSFTQNNMKAQOEMTS-----ELR 440  
QY 406 FOVLETA SYNGVLIMKIRDYKRRKQEA VMGK 436  
Db 441 QOKFYLETQAGL-----EAQNRKLEEQLEK 466

Search completed: December 19, 2002, 14:59:39  
Job time : 15 secs